Application No.: 10/049,967 17790 (BOT)

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## **AMENDMENTS**

## Amendments to the Claims

1-47. (Canceled)

48. (Previously presented) A method of treating poisoning by a clostridial toxin in a patient in need thereof, the method comprising the step of administering an effective amount of a toxin-resistant SNAP-25 or a toxin-inhibitory SNAP-25 to the patient;

wherein the toxin-resistant SNAP-25 is a SNAP-25b variant having-at-least-80% at least 95% identity to SEQ ID NO: 42 that is capable of supporting Ca<sup>2+</sup>-mediated exocytosis, but resistant to proteolysis by the clostridial toxin;

wherein the toxin-inhibitory SNAP-25 is a SNAP-25b variant having-at least 80% at least 95% identity to SEQ ID NO: 42 that is capable of supporting Ca<sup>2+</sup>-mediated exocytosis, but further capable of inhibiting the protease activity of the clostridial toxin;

wherein administration of the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 produces a clinically useful or significant reduction in a symptom of poisoning caused by the clostridial toxin in the patient suffering from clostridial toxin poisoning.

49. (Canceled)

50. (Previously presented) A method of preventing poisoning by a clostridial toxin in a patient in need thereof, the method comprising the step of administering an effective amount of a toxin-resistant SNAP-25 or a toxin-inhibitory SNAP-25 to the patient;

wherein the toxin-resistant SNAP-25 is a SNAP-25b variant having-at-least-80% at least 95% identity to SEQ ID NO: 42 that is capable of supporting Ca<sup>2+</sup>-mediated exocytosis, but resistant to proteolysis by the clostridial toxin:

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wherein the toxin-inhibitory SNAP-25 is a SNAP-25b variant having-at-least-80% at least 95% identity to SEQ ID NO: 42 that is capable of supporting Ca<sup>2+</sup>-mediated exocytosis, but further capable of inhibiting the protease activity of the clostridial toxin;

wherein administration of the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 produces a clinically useful or significant reduction in a symptom of poisoning caused by the clostridial toxin in the patient at risk of poisoning when exposed to the clostridial toxin.

## 51-52. (Canceled)

- 53. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin is a botulinum toxin type A.
- 54. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin is botulinum toxin type C1.
- 55. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin is botulinum toxin type E.

## 56. (Canceled)

- 57. (Previously presented) The method of either claim 48 or claim 50, wherein the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 comprises a replacement of a residue equivalent to residue Q197 of SEQ ID NO: 42 by a residue other than Q;
  - wherein residue 197 corresponds to the P1 position flanking the bond cleaved by botulinum toxin type A
- 58. (Previously presented) The method of either claim 48 or claim 50, wherein the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 comprises a replacement of a residue equivalent to residue R198 of SEQ ID NO: 42 by a residue other than R;

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wherein residue 198 corresponds to the P'1 position flanking the bond cleaved by botulinum toxin type A or the P1 position flanking the bond cleaved by botulinum toxin type C1.

- 59. (Previously presented) The method of claim 57, wherein the residue equivalent to residue Q197 of SEQ ID NO: 42 is replaced by a residue selected from the group consisting of A. K and W.
- 60. (Previously presented) The method of claim 58, wherein the residue equivalent to R198 of SEQ ID NO: 42 is replaced by a residue selected from the group consisting of A, T, K, H and W.
- 61. (Cancelled)
- 62. (Previously presented) The method of either claim 48 or claim 50, wherein the clostridial toxin poisoning is botulism.
- 63-68. (Canceled)
- 69. (Previously presented) The method of either claim 48 or claim 50, wherein the patient is an infant.
- 70. (Previously presented) The method of either claim 48 or claim 50, the patient is an adult.
- 71-72 (Canceled)
- 73. (Previously presented) The method of either claim 48 or claim 50, further comprising the step of treating the patient with an inhibitor of the clostridial toxin.
- 74. (Canceled)

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 (Previously presented) The method of claim 73, wherein the clostridial toxin inhibitor is N-acetyl-CRATKML-carboxamide.

76-103. (Canceled)

- 104. (Previously presented) The method of either claim 48 or claim 50, wherein the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 comprises of amino acids 142-202 of SEQ ID NO: 42.
- 105. (Previously presented) The method of either claim 48 or claim 50, wherein the toxin-resistant SNAP-25 or the toxin-inhibitory SNAP-25 consists of amino acids 142-202 of SEQ ID NO: 42, amino acids 142-203 of SEQ ID NO: 42, amino acids 142-204 of SEQ ID NO: 42, amino acids 142-205 of SEQ ID NO: 42, or amino acids 142-206 of SEQ ID NO: 42.